Orange GIS 59G1502

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CONTRACT

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Prepared for:

Orange County
Public Safety and Infrastructure

WTH
ENGINEERING

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Proposal for
GIS Products and Services
for Orange County, Indiana
July, 2002

WTH Technology (the "Company") wishes to provide the Orange County Board of Commissioners (the "Client") with new software and map development services to enhance the county's existing Geographical Information System (GIS). The following defines the scope of products and services to be offered by the Company and the compensation to be paid by the Client.

1. **Summary:** The following is a summary of this proposal. Each item is described in more detail in the sections below.

   a) The Company will convert the existing information contained in the Sheriff Department's electronic map (Citymap) into the county's new GIS. This will include relocating all addresses, roads, and all other layers on the Sheriff Department's existing map so that they line up with the new digital ortho photography.
   b) The Company will also include a road segmentation data layer and the current bridge inventory in a digital format.
   c) The Company will upgrade the client's existing Citymap software to the latest version, called Thinkmap, which is capable of displaying the background digital ortho-photography.
   d) The Company will provide technical support for licensed users of the software, synchronize data between users, and provide an off-site backup on a regular basis. Upgrades to the software will be automatically installed onto the Client's computers as they become available.
   e) The cost of these products and services will be $19,700 plus $5250 annual Customer Support fee, specifically $3,500 for Public Safety users and $1750 for Infrastructure users. If the Client chooses to add the voter precinct layer, then the cost for products and services will be $22,200.

2. **Initial Map and Data Development:** The finished Digital Mapping System will consist of several data sets. All of the following data sets are included. All layers are positioned on the map to line up with each other and with the world.

   a) Aerial Photography: 1997-98 digital ortho photos will be included as a background raster image on the map. These photos will come from the USGS and have a 1 meter per pixel resolution and have been orthogonally rectified to remove relief displacement so that ground features are displayed in their true ground position.
   b) USGS Topo Maps: Digital USGS topo maps will be included. This can be utilized for reference information.

c) Section Lines: Section lines are added based on USGS Quad Maps. This data will be moved into position and fit to visible land references on the photography such as fence lines, roads etc.

d) Roads: The Company will re-position each road, highway and railroad layer to fit on the new digital ortho photography. All of the data currently in the GIS will be kept in the conversion of the data from Citymap to Thnkmap.

e) Landmarks and Boundaries: Any towns, place names, points of interest, and other similar information in the GIS will be redrawn onto the county's new GIS base map. If additional boundary data such as emergency response boundaries can be provided, these will be added as well.

f) Addresses: The Company will re-plot each address point onto the new GIS base map. Any existing driveways will also be redrawn. The new location of each address will be based on the location of buildings visible in the new digital ortho photography. There will be cases when it is not obvious which address goes to which building on the photography. In these cases, the Company will place the address point on the closest or most obvious structure.

g) Streams, Lakes, and Rivers: All waterways currently in the map will be re-positioned to the digital ortho photo.

h) Bridge Inventory: The location of each county bridge will be pinpointed on the map based on map(s) provided by the Client or other sources. Each bridge will be linked to a data sheet where detailed specifications, maintenance, and notes can be recorded. The Company will populate the database with information provided directly from INDOT. Any additional information from the Client such as photographs and sketches of each bridge will also be included in the database if provided by the Client.

i) Road Segmentation: A detailed layer that overlays the road layer and includes the state inventory number, to and from road intersection names, segment length etc. These road segment features will be a continuous segment that will change at noted changes based on the inventory map. If an existing road does not have a state number, a new number will be added that will be clearly different that the state number.

3. **Description of Software:** The Software to be provided with this contract is called "Think Map". A compiled Microsoft Access database is also included for each licensed user. The Client will need to have Microsoft Access 2000 already installed on their computers where the road inventory and bridge inventory will be viewed.

a) The following is a summary of the functionality included in the software:
   - The software provides various zooming and panning tools to make it possible to easily view any area of the map at any scale.
   - Locate any named objects or location on the map by selecting them from an alphabetical index or by pressing the Map button from any data sheet.
   - Users can query the database for a set of records matching any criteria based on any combination of field values and then show the results on the map.
   - Point and click on any object on the map to view the data linked to that object.
   - Measure any distance or area.

- Layers can be turned on and off independently to customize the appearance of the map at each workstation.
- Import or Export data from and to other mapping applications.
- E911 interface to provide automatic pop-up map with each E911 call.
- Editing tools are included to assist in adding or changing any information.
- GPS interface.

b) Hardware Requirements. Note that no computer hardware is included with the purchase of this system. The software can be installed and ran on any computer provided by the client that meets the following minimum requirements:
   - Windows 95, 98, or NT.
   - Microsoft Access 2000 is used for the bridge inventory and road segmentation databases. Access 2000 is not included in this software. Microsoft Access 97 or 95 will not work in place of Access 2000.
   - 64 Megabytes of memory (128 megs or higher recommended for computers that will use the parcel assessment tool).
   - 3 Gigabytes of available hard disk space. (More space may be needed if higher digital ortho rectified photography is used).
   - 15" SVGA color monitor capable of displaying 16 bit color at 800 X 600 resolution or better. (21" recommended)
   - Keyboard and mouse
   - Modem and/or Internet Access. (required for data synchronization, backup, and support)

4. Installation and Coaching:

a) Use of Software: The software will be licensed for use on ten (10) individual workstations located in the county and used for county government purposes only. A list of these initial ten (10) users must be provided to the Company prior to installation. The software may be installed on a network of computers but "use" of the software is limited to those users agreed upon prior to installation.

b) Setup: When the project is completed the Company will install the software and data files into each department's existing computers and setup each workstation with a strategy of sharing data with the other departments (see Customer Service section below). Note that no computer hardware is included with the purchase of this system. Company will provide training for the first year based on a "coaching" concept. Coaches are made available to the users (via the phone or in person) on demand for any purpose utilizing the Think Map software.

c) 911 Interface: The Company will interface the mapping software with the Client's E911 system so that a map will automatically be displayed with each 911 call showing the location of the caller. To do this, the Client's 911 provider must make available a local connection point that provides an ALI stream of data with each 911 call. The Client's 911 provider may have additional charges for their part of this interface.

5. Customer Support:

a) Toll Free Telephone Support: As part of this customer service agreement, business hours phone support will be provided for one representative from each department. Phone support will include answering questions regarding the use of the software and making changes to the system configuration to adapt to the Client's changing needs.

b) Software Upgrades: Any enhancements made to the Think Map system during the life of the service agreement will be automatically uploaded to the client's computer(s) as they become available.

c) Data Synchronization: This service will make it possible for departments not connected to a central network (i.e. remote users) to transfer data between the Client and the Company. Remote users who have Internet access on their computer will be able to automatically dial into the Company's FTP site and send or receive map updates. With this in place, any user responsible for maintaining one or more layers can upload their changes to a remote server and all other users will be able to download these layers so that they are up to date each morning.

d) Off Site Data Back-up: The Company will maintain a "back-up" of the Client's Map Data off-site of the county. In case of computer data loss, this data back-up will be provided to the county at no charge. The data will be as current as the last date the Client synchronized their data with the Company.

e) Pre-Contract Technical Council: The Company will assist the Client in any pre-contract technical decision that needs to be made regarding digital data interfacing with the Think Map GIS system. The Company's wide range of experience will aid the Client in making efficient decisions for the Client and the Think Map product.

f) Coaching: Company will provide training for the first year based on a "coaching" concept. Coaches are made available to the users (via the phone or in person) on demand for any purpose utilizing the Think Map software.

g) Additional users: This contract provides software for use on ten (10) computers. The Company will provide licenses to the Client for additional users for a cost of $500 per computer. This price is guaranteed for the 1 year following the signing of this contract.

6. Price and Payment:

There are two options available. Please place a check in the box next to the desired option.

Original Option

Phase	Delivery Date from Contract Signing	Amount	Invoice Date from Contract Signing	Description
Phase 1	45 days	$19,700	45 days	10 Think Map licenses + the following Map Layers converted and aligned: USGS DOQQ Photography Digital USGS Topography Maps Section Lines Landmarks and Boundaries Emergency Response Boundaries Roads Highways Railroads Water Road Segmentation Bridge Inventory Addresses 911 Interface
Total GIS Cost		$19,700		
Customer Support	N/A	$5,250	45 days	Annual Customer Support for all Public Safety and Infrastructure Users

Annual Renewal and Cancellation Clause

The Customer Support plan will automatically renew each year unless the Client cancels this contract. The Client may cancel this contract at any time by providing written notice to the Company at least sixty (60) days prior to the desired termination date.

IN WITNESS WHEREOF, the parties have executed this Agreement as of this 24 day of July, 2002.

Company:

WTH Technology, Inc.

By: Rex E. Jones
Rex E. Jones

Title: President

Client:

Orange County
Board of Commissioners

By: Richard Beaty

By: Charles W. Hall

By: _____

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